

MEETING MINUTES FROM THE  
MARICOPA ASSOCIATION OF GOVERNMENTS  
STANDARD SPECIFICATIONS AND DETAILS COMMITTEE

May 4, 2011

Maricopa Association of Governments Office, Cholla Room  
302 North First Avenue  
Phoenix, Arizona

AGENCY MEMBERS

Jim Badowich, Avondale	Mike Samer, Mesa
Scott Zipprich, Buckeye	Javier Setovich, Peoria (Proxy)
Warren White, Chandler	Syd Anderson, Phoenix (St. Trans.)
* Dave Emon, El Mirage	* Jami Erickson, Phoenix (Water)
Greg Crossman, Gilbert	Marc Palichuk, Queen Creek
Tom Kaczmarowski, Glendale	Rodney Ramos, Scottsdale
Troy Tobiasson, Goodyear, Chair	Jason Mahkovtz, Surprise
Bob Herz, MCDOT	Tom Wilhite, Tempe, Vice Chair

ADVISORY MEMBERS

Jeff Benedict, AGC	Jeff Hearne, ARPA
Tony Braun, NUCA	Peter Kandaris, SRP
Bill Davis, NUCA (proxy)	Paul R. Nebeker, Independent
Brian Gallimore, AGC	* Mike Smith, ARPA

MAG ADMINISTRATIVE STAFF

Gordon Tyus

\* Members not attending or represented by proxy.

GUESTS/VISITORS

Arturo Chavarria, Hanson Pipe  
Bob Erdman, Cutler Repaving  
Jacob Foster, Stronggo  
Maher Hazine, Peoria  
Greg West, TetraTech

1. Call to Order

Chairman Troy Tobiasson called the meeting to order at 1:32 p.m. The chair welcomed new member Javier Setovich from the City of Peoria who will be taking over for former member Jesse Gonzales.

2. Call to the Audience

No members from the public wished to address the committee.

3. Approval of Minutes

The members reviewed the April 6, 2011 meeting minutes. Jason Mahkovtz introduced a motion to accept the minutes as written. Greg Crossman seconded the motion. A voice vote of all ayes and no nays was recorded.

**Review of 2010 and 2011 Cases**

4. Case 10-05 – Revise FOREWORD

*Clarify use of the MAG Specifications and Details for Public Works document.* Javier Setovich suggested withdrawing this case. Peter Kandaris said he had worked with Jesse Gonzales on the case before he left, and was willing to help with the case rather than withdraw it. He suggested just including the foreword for the MAG book since the Outside Right-of-way Guide would not be ready this year. Members agreed to work together to finalize a revised foreword that would focus on a new edition of the MAG Specs and Details book.

5. Case 10-08 – Revise Section 717 Asphalt Rubber

*Revise Section 717 ASPHALT-RUBBER to obtain a uniform specification.* Bob Herz said that he still needed to get reviewers from the county together to discuss this case. Jeff Benedict said members of the asphalt working group were planning to meet with county officials this Friday.

6. Case 10-12 – New Section 361 – Shallow Depth Fiber Optic Micro-Conduit Installation

*Provide specifications for the installation of underground fiber optic micro-conduit telecommunications facilities within the public right-of-way.* Sponsor Rod Ramos said he was considering withdrawing the current case and resubmitting a new case later that focused on the asphalt repair specifications, which could be used not only for shallow depth cable installation, but also crack repair. He said they did install some material near Cholla and 84<sup>th</sup> Streets, and would be testing its performance. Mr. Ramos said that if the specification focused just on the asphalt repair, individual jurisdictions could use the specification for crack repair or for shallow depth cable installation if they so chose. The cable installation

specifications would not be included because jurisdictions may not wish to allow shallow depth cable installation, or may want to provide their own provisions. Jeff Benedict said the Asphalt Working Group is developing a new crack seal specification, and this repair method could be included as one of the options. Discussions included the size of cracks that could be repaired, the depth the saw wheels can cut, and to avoid proprietary materials in the specification. Mr. Ramos decided that he would withdraw the current case, and work with the asphalt group to develop a crack seal specification similar to the method used in the current case, but just focusing on the asphalt repair requirements.

7. Case 11-01: Miscellaneous Corrections

- a. **Case 11-01A – Correct the formula in Table 711-1.** No new comments provided.
- b. **Case 11-01B –Correct percentage in Table 705-1.** No new comments provided.
- c. **Case 11-01C –Correct reference in Detail 12.** No new comments provided.

8. Case 11-02 – Safety Edge Detail

*Add an Asphalt Pavement Safety Edge option to Detail 201.* Bob Herz mentioned that he provided new specifications at the last meeting and asked for comments. Brian Gallimore handed out copies of a brochure produced by the U.S. DOT about safety edges on road reconstruction (available here: [http://safety.fhwa.dot.gov/roadway\\_dept/pavement/safedge/](http://safety.fhwa.dot.gov/roadway_dept/pavement/safedge/)). He explained differences between the detail on the brochure and the proposed detail, and described methods of construction used by ADOT. Bob Herz explained that the current detail and specifications were for new construction and that the specifications required two lifts, which would allow the edge construction at the required angle. Mr. Gallimore noted that the detail would not work if the road were constructed with one 3” lift. Members discussed several variations of base course and asphalt thicknesses. Rod Ramos said overlay reconstruction with a safety edge was common. Mr. Herz said he was willing to add an additional detail for overlays.

9. Case 11-03 – Replace Cadmium Plated Bolts.

*Replace cadmium plated bolts referenced in Section 610.13 with zinc plated bolts as described in ASTM-B633.* Javier Setovich, taking over the case for Jesse Gonzales said he would like to defer this case until next month so he can review it.

10. Case 11-04 – Deletion of Detail 190, Rock Correction Procedure

*Replace reference to MAG Detail 190 in MAG Section 301. Delete MAG Detail 190.* Peter Kandarlis handed out an update to the case that replaced reference to MAG Detail 190 in MAG Section 301 with ARIZ 227c, and replace reference to ASTM D2922 & 3017 in MAG Section 301 with ASTM D6938 (superseded in 2007). Jeff Herne asked if users would know what ARIZ 227c is referencing. Mr. Kandarlis said he believed it was in the definitions, but would check.

11. Case 11-05 – Deletion of MAG Section 225, Watering

*Move MAG Section 225, Water Requirements into MAG Section 104.1.3.* Peter Kandariss handed out an update to the case that made changes to address comments provided by Maricopa County. The last paragraph was modified to change “bid” to “proposal price.” The case also deleted all but the first sentence of the last paragraph of 104.1.1 because these items are covered by subsection 107.9. Finally a reference to Section 225 was deleted in Section 311.2 since watering requirements were already covered in the referenced Section 725.

12. Case 11-06 – Deletion of Out of Date MAG Standards

*Remove sections and details that are no longer used or refer to outdated technologies.* Scott Zipprich said that he was continuing to revise the list of deletions based on feedback from working groups. For example the debris caps were discussed at the last Water/Sewer Working Group meeting and it was determined that they were still in use by several agencies. Rather than delete the MAG details he suggested it be updated to match requirements of the agency supplements. Mr. Zipprich also mentioned that he was working on updating the fire hydrant details to reduce supplements by creating three details, including a wet barrel version. The updated details would allow flexibility in such things as if and where shear blocks are placed. Scott Zipprich asked the committee if there were any additional deletion cases. Jeff Herne said that the Concrete Working Group identified Section 341 Terrazzo Sidewalks as a possible deletion, or perhaps inclusion in the Outside the Right-of-way Specs only. Mr. Zipprich said that he would update the list of proposed deletions for the next meeting.

**New 2011 Cases**

13. Case 11-07 – Revise Section 327: Hot In-Place Recycling

*Update Section 327 to current industry standards.* Jeff Benedict introduced a new case based on review from the Asphalt Working Group to provide minor updates to Section 327 including noting the asphalt depths, adding a reference to Section 717, and correct the typographic error for the word “scarifiers.” Mr. Benedict also suggested that the committee consider deleting Section 323 Heater Remix Resurfacing, since it is not commonly used.

14. Case 11-08 – Revise Section 711: Paving Asphalt

*Update performance tables, references to ASTM standards, and revise Section 711 to meet current practices.* Jeff Benedict introduced a new case based on review from the Asphalt Working Group to make major revisions to the paving asphalt specifications. The revisions would completely update Table 711-1 Performance Grading System to meet AASHTO standards. He noted a change in the PAV Temp to 110 degrees for some grades. Other changes are noted in yellow (on electronic and color copies). Mr. Benedict said the committee may wish to delete the table on application temperature, because these

temperatures are often overruled by Maricopa County Environmental Division standards. He also said the asphalt is not mixed in pug mills either. Members suggested changing the temperature section to reference the approved mix design requirements.

15. Case 11-09 – Update Preservative Seal for Asphalt Concrete

*Revise Sections 334 and add new 718 to meet current industry materials and practice.* Jeff Benedict introduced a new case based on review from the Asphalt Working Group to include new materials. A new materials section 718 was included that breaks the asphalt preservative seals into three types. Members noted that the letters of the types needed to be updated in Section 334 to refer to the correct type in 718. Mr. Benedict said he would make those corrections and asked members to review the case and provide comments back to him.

16. Case 11-10 – Curb Ramp Modification for Radial Installations

*Add new detail 234 and modify existing ramp details to show curb modification.* Bob Herz handed out a new case with the purpose to eliminate concrete spalling that may occur in the narrow curved segment between the back of curb and the detectable warnings for curb ramps installed within a curb return. Mr. Herz said forming the back of the curb as a straight line corresponding to the edge of the detectable warning would eliminate the “sliver” of concrete between them. He said this revision was based on a PAG detail. Members suggested not filling in the area with black for clarity, and asked if these changes could be made on existing 235 details. Mr. Herz said that he would revise the new detail and the existing ones to show the change, and add a reference to the new detail since there is not room to add all the necessary notes to the existing ramp details.

17. Case 11-11 – ASTM Revisions

- a. **Case 11-11A – Nuclear Density Testing of Soil.** Peter Kandaris introduced this case to update references to ASTM standards that have changed. ASTM standard D3017, “Standard Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth),” and standard D2922, “Standard Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)” were withdrawn in 2007 and replaced with ASTM D6938, “Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth).” This case would replace the old ASTM references with the new one on several pages noted in the case materials. Mr. Kandaris said he could leave the case open so as other out-of-date ASTM references were found and updated they could be added.

18. Case 11-12 – Modifications to Regulatory Requirements, MAG 107

*Add references to Arizona native plant requirements update references to state statutes.* MAG Section 107.1(A) references ARS 23-373; however, current state statutes no longer include 23-373. A new reference is needed (possibly ARS 23-425 and/or a statute within ARS 34.) Agencies were asked to consult their legal departments to determine an appropriate

reference. Mr. Kandarlis said MAG 107 should be reviewed by the agency legal departments in general to update it for current ARS statutes. Members said their agencies have developed their own contracts. Scott Zipprich said that some smaller agencies use the MAG section as a boilerplate, so it really should be updated. Mr. Herz said Maricopa County supplements MAG 107 also. Mr. Tyus asked members to provide sample contracts to help determine what areas should be updated. He said MAG does have a legal counsel that may be available to review the issue.

## 19. Potential Cases

Paul Nebeker brought information on plate locks used to restrain plates instead of cold patch. Pros and cons of the plate locks (essentially lag bolts) were discussed. Pros included ease of installing and removing the plates. Cons included the chance the bolts would come loose, and the repair needed once removed. Rod Ramos said they have used locks on speed tables without problems. Brian Gallimore said he had problems with the bolts coming up on a similar application. A brochure is available online here: [www.platelocks.com](http://www.platelocks.com)

Gordon Tyus said he received information from Michael Henrick of McDonald that low lead standards being developed by ANSI are to be effective July 1, 2012. Some extra copies were available for interested members. Some members said they would check to see what plans have been made for the switch-over at their agency.

Warren White provided an update on ADA compliant ramp details stating that a ruling on dual ramps was expected this summer, and the committee may want to wait for the result before approving dual ramps.

## 20. Working Group Reports

### a. **Specifications and Details Outside the Right-of-Way Working Group (4/27/11)**

Peter Kandarlis said the group is working in three general areas: additions of new standards (such as detectable warnings); combining/deleting supplements, and revising existing specifications to work on-site. Example areas of discussion where additional work was needed to incorporate supplements included: guard rails, landscaping and irrigation specifications, other types of sidewalks, and backfill/excavation specifications. Mr. Kandarlis suggested developing a flow chart to determine updates may be useful. The group also discussed needing additional research on the plasticity index and ABC, and perhaps using the R value in a referee test. He said he appreciated the attendance and participation of industry at the meeting and said the next meeting will be May 25<sup>th</sup> at 1:30 p.m. at the ARPA offices.

### b. **Asphalt Working Group (4/13/11)**

Jeff Benedict said Don Cornelison produced minutes from the meeting which were included in the meeting addendum. He said he expects revisions to about five more sections should be ready to be presented as cases at the next meeting. As mentioned previously, the group is working on a new crack seal section. They are also looking at the recycled asphalt pavement section, which has become a challenge to update to take

into account mix design issues. The next meeting will be May 13<sup>th</sup> at 7:30 a.m. at the Speedy and Associates office.

c. **Materials Working Group (4/13/11)**

Brian Gallimore said revisions to Section 301 would probably be ready as a case next month. Sections 309/311 revisions were in rough draft form and may also be ready by next month. MAG sections 310, 312, 701, 702 and 705 required much more work. Mr. Gallimore said he was working on MAG 270 to provide adjustment details and asked Mike Samer if Mesa had a supplement that could be used as a starting point. He said he would also work with members of the Water/Sewer group. Additional details from the meeting are in the minutes provided in the addendum. The next meeting is scheduled for May 13<sup>th</sup> after the Asphalt meeting (around 8:45 a.m.) at the Speedy and Associates office.

d. **Water/Sewer Issues Working Group (4/19/11)**

Jim Badowich said Charles Moses presented information on precast manhole construction and specifically, bases, to the group. This presentation is available on the MAG web site here: <http://www.azmag.gov/Events/Event.asp?CMSID=3838>.

The group discussed pros and cons of precast vs. cast-in-place bases, compaction issues, and different methods of connecting the pipe with flexible joints. Mr. Kandaris said SRP has sample details he could provide. The group also discussed revising the manhole construction details to be more general since no manufacturers build them exactly to the MAG detail dimensions. Mr. Badowich asked if agencies use anything other than 24" and 30" frames and covers. He said the group discussed adding the manufacturer's name and model number to frames and covers so they would be correctly matched when doing road reconstruction or repairs. Rod Ramos commented that Quest uses different covers. Jim Badowich also asked the committee if they had any information on PVC pipe pressure reclassifications, and how it might affect how the pipe is specified. The next meeting of the water/sewer group is scheduled for May 17<sup>th</sup> at 1:30 p.m. at the MAG office.

e. **Concrete Working Group (4/21/11)**

Jeff Hearne said notes from the meeting were included in the packet. Group members are working in four sub-areas, and planned to review specifications identified by the Outside ROW Working Group. The group will later bring recommendations back to the MAG committee. Mr. Hearne requested agency staff attend the meetings to help provide guidance on areas of concentration. The next meeting is scheduled for May 18<sup>th</sup> at 1:30 p.m. at the ARPA office.

## 21. Staff Reports

Gordon Tyus said he discussed the issue of charging for downloads of electronic files on the website with MAG's executive director. He reported the director preferred to continue making the documents available online for free and even suggested that MAG stops printing books and releases them online only. Mr. Tyus asked for feedback from agency members on whether they would prefer electronic-only versions, if they wished MAG to continue printing

books, or possibly other print-on-demand arrangements. Some discussion of what and how the book could be released electronically followed. Maher Hazine of Peoria said he did not think MAG should release the AutoCAD files, so they would not be modified in plans.

Gordon Tyus also said he worked with the administrative assistant to begin converting the MAG specifications from WordPerfect to Microsoft Word format. The conversion to Word would ease the sharing and revision of MAG specifications in the future. It would also necessitate creating a completely new edition, since in the conversion process the pagination changes, and page specific updates would not be possible. Mr. Tyus asked for feedback from members on whether to continue the conversion based on the likelihood of releasing a new edition. Most members preferred to go ahead with a new edition. Chair Tobiasson said there have been many updates in the past years, and this would allow a clean slate to begin a new book going forward. Maher Hazine of Peoria noted that since the reformatting would be needed on future cases, to wait would create more work in reformatting. It would be more efficient to revise and incorporate sections next year if they were both already in Word format. Several members commented that many books have not been kept up-to-date. Mr. Tyus said the conversion would make it easier to provide links in future web site and PDF versions. It was generally agreed to continue work on the conversion and that a new edition would be warranted this year even if all of the proposed sections were not revised.

## 22. Open General Discussion

No general discussion topics were introduced.

## 23. Adjournment:

Chairman Tobiasson adjourned the meeting at 4:05 p.m.